

For Research Use Only

# TRAIL/CD253 Polyclonal antibody

Catalog Number: 27064-1-AP

Featured Product

11 Publications



## Basic Information

### Catalog Number:

27064-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25746

### GenBank Accession Number:

BC032722

### GeneID (NCBI):

8743

### UNIPROT ID:

P50591

### Full Name:

tumor necrosis factor (ligand)  
superfamily, member 10

### Calculated MW:

281 aa, 33 kDa

### Observed MW:

33 kDa, 20 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:500-1:3000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: human milk,

IHC: human kidney tissue, human lung cancer tissue,  
human lymphoma tissue

IF/ICC: MCF-7 cells,

## Background Information

TRAIL, also known as CD253 or TNFSF10 (tumor necrosis factor superfamily member 10), is a typical death ligand expressed on natural killer cells and cytotoxic T lymphocytes. This protein preferentially induces apoptosis in transformed and tumor cells, but does not appear to kill normal cells although it is expressed at a significant level in most normal tissues. TRAIL induces apoptotic cell death in cancer by binding to its functional death receptors, death receptor (DR) 4 (TNFRSF10A/TRAIL-R1) and DR5 (TNFRSF10B/TRAIL-R2) to activate the extrinsic apoptosis pathway. TRAIL also activates c-Jun N-terminal kinase (MAPK8/JNK) and the transcription factor nuclear factor- $\kappa$ B (NF $\kappa$ B). The binding of this protein to its receptors has been shown to trigger the activation of MAPK8/JNK, caspase 8, and caspase 3.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Jie Chen	36256535	J Nat Prod	WB
Li Zhang	36265256	Phytomedicine	WB
Zujia Wang	35267023	Stem Cells Transl Med	IF

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

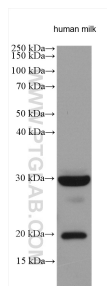
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

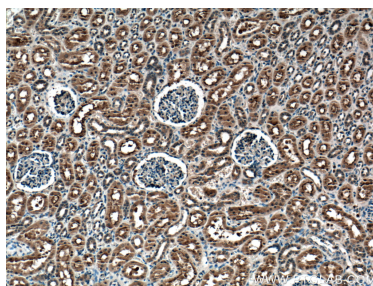
W: [ptgcn.com](http://ptgcn.com)

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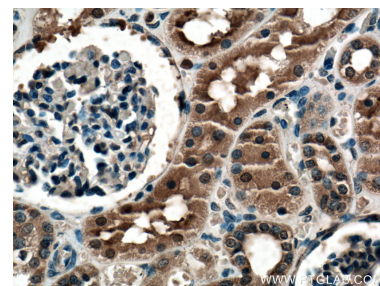
## Selected Validation Data



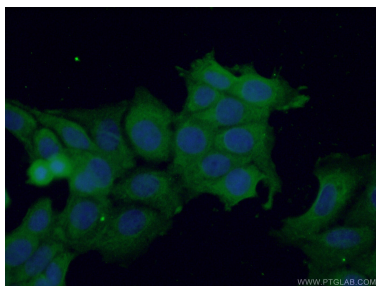
Human milk sample were subjected to SDS PAGE followed by western blot with 27064-1-AP (TRAIL antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27064-1-AP (TRAIL antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 27064-1-AP (TRAIL antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 27064-1-AP (TRAIL antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).